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PATENTS

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Schinazi, et al.)
) Art Group No.: 1614
Serial No.: 09/879,854)
) Examiner: Not Yet Assigned
Filed: June 12, 2001)
)
For: Nucleosides with Anti-Hepatitis) Atty. Docket No.: 18085.105093
B Virus Activity)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Box IDS
Washington, DC 20231

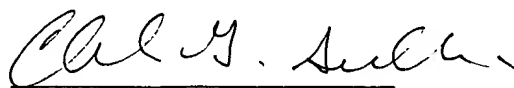
January 10, 2002

Sir:

The citation of information on the attached Form PTO-1449, "Information Disclosure Statement by Applicant" is made pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98. A copy of each cited item is enclosed.

Because this paper is filed before a first office action on the merits, no fee is believed due. Nevertheless, please charge any requisite fees associated with this paper to Deposit Account No. 11-0980.

Respectfully submitted,


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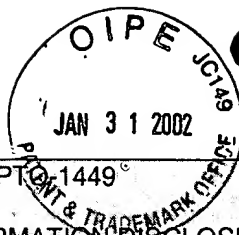
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Clark G. Sullivan

Date: January 10, 2002

File No.: EMU 120 CON (18085.105093)



Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket No:	Application No:
	18085.105093 (EMU120CON)	09/879,854
	Applicant:	
	Raymond F. Schinazi, <i>et al.</i>	
	Filing Date:	Group Art Unit
	June 12, 2001	1614

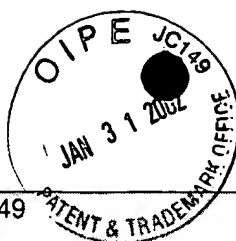
U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	U.S. Class	U.S. Subclass	Filing Date If Appropriate
	AA	4,000,137	12/28/76	Dvorch, <i>et al.</i>	260	252	06/10/75
	AB	4,140,761	02/20/79	Gerin, <i>et al.</i>	424	85	04/11/77
	AC	4,336,381	06/22/82	Nagata, <i>et al.</i>	544	313	11/03/80
	AD	4,788,181	11/29/88	Driscoll <i>et al.</i>	514	49	09/29/86
	AE	4,818,538	04/04/89	Rideout, <i>et al.</i>	424	436	10/21/87
	AF	4,861,759	08/29/89	Mitsuya, <i>et al.</i>	514	46	08/11/87
	AG	4,879,277	11/07/89	Mitsuya, <i>et al.</i>	514	49	08/11/87
	AH	4,900,828	02/13/90	Belica, <i>et al.</i>	544	317	05/12/88
	AI	4,916,122	04/10/90	Chu, <i>et al.</i>	514	50	10/02/87
	AJ	4,963,533	10/16/90	de Clercq, <i>et al.</i>	514	49	10/24/86
	AK	5,041,449	08/20/91	Belleau, <i>et al.</i>	514	274	06/29/90
	AL	5,047,407	09/10/91	Belleau, <i>et al.</i>	514	274	02/08/89
	AM	5,059,690	10/22/91	Zahler, <i>et al.</i>	544	276	05/01/90
	AN	5,089,500	02/18/92	Daluge	514	261	05/08/91
	AO	5,149,794	09/22/92	Yatvin, <i>et al.</i>	536	29	11/01/90
	AP	5,151,426	09/29/92	Belleau, <i>et al.</i>	514	262	06/17/91
	AQ	5,179,104	01/12/93	Chu, <i>et al.</i>	544	310	12/05/90
	AR	5,185,437	02/09/93	Koszalka, <i>et al.</i>	536	24	08/31/91
	AS	5,194,654	03/16/93	Hostetler, <i>et al.</i>	558	152	11/22/89
	AT	5,204,466	04/20/93	Liotta, <i>et al.</i>	544	317	02/01/90
	AU	5,210,085	05/11/93	Liotta, <i>et al.</i>	514	274	02/22/91
	AV	5,223,263	06/29/93	Hostetler, <i>et al.</i>	424	450	06/28/89
	AW	5,234,913	08/10/93	Furman, Jr. <i>et al.</i>	514	49	03/05/92
	AX	5,248,776	09/28/93	Chu, <i>et al.</i>	544	310	12/05/91
	AY	5,256,641	10/26/93	Yatvin, <i>et al.</i>	514	2	07/09/92
	AZ	5,270,315	12/14/93	Belleau, <i>et al.</i>	514	262	03/07/91
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	AAB	5,411,947	05/02/95	Hostetler, <i>et al.</i>	514	43	12/06/92
	AAC	5,444,063	08/22/95	Schinazi	514	262	10/28/92
	AAD	5,463,092	10/31/95	Hostetler, <i>et al.</i>	554	40	12/18/92
	AAE	5,466,806	11/14/95	Belleau, <i>et al.</i>	544	310	03/29/93
	AAF	5,486,520	01/23/96	Belleau, <i>et al.</i>	514	274	12/10/93
	AAG	5,532,246	07/02/96	Belleau, <i>et al.</i>	514	274	01/03/92
	AAH	5,539,116	07/23/96	Liotta, <i>et al.</i>	544	317	02/10/93
	AAI	5,543,389	08/06/96	Yatvin, <i>et al.</i>	514	2	10/26/93

Examiner:

Date Considered:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



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	18085.105093 (EMU120CON)	09/879,854
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U.S. PATENT DOCUMENTS

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	BA	5,543,390	08/06/96	Yatvin, <i>et al.</i>	514	2	05/19/94
	BB	5,543,391	08/06/96	Yatvin, <i>et al.</i>	514	2	05/16/95
	BC	5,554,728	09/10/96	Basava, <i>et al.</i>	530	327	07/23/95
	BD	5,561,120	10/01/96	Lin <i>et al.</i>	514	49	10/01/96
	BE	5,587,480	12/24/96	Belleau, <i>et al.</i>	544	310	04/20/94
	BF	5,604,209	02/18/97	Ubasawa <i>et al.</i>	514	45	06/02/94
	BG	5,627,160	05/06/97	Lin <i>et al.</i>	514	49	07/28/93
	BH	5,631,239	05/20/97	Lin <i>et al.</i>	514	49	10/18/95
	BI	5,696,254	12/09/97	Mansour <i>et al.</i>	536	27.11	05/21/92
	BJ	5,744,596	04/28/98	Mansour <i>et al.</i>	536	27.11	06/05/95
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	BL	5,770,713	06/23/98	Imbach, <i>et al.</i>	536	22.1	05/11/94
	BM	5,770,725	06/23/98	Gosselin, <i>et al.</i>	536	26.7	04/04/95
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	BO	5,852,027	12/22/98	Liotta <i>et al.</i>	514	274	02/21/92
	BP	5,990,093	11/23/99	Schinazi <i>et al.</i>	514	47	03/31/97
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	BR	6,245,749 B1	06/12/01	Schinazi <i>et al.</i>	514	47	06/09/98

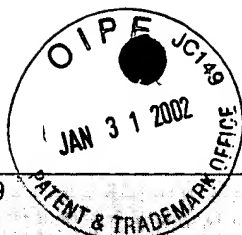
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	BU	0 350 287	A2	01/10/90	Europe	5	C 07 H 19/073
	BV	0 352 248	A1	01/24/90	Europe	5	C 07 H 19/06
	BW	0 375 329	A2	06/27/90	Europe	5	C 07 D 474/00
	BX	0 382 526	A2	08/16/90	Europe	5	C 07 D 473/00
	BY	0 433 898	A2	12/29/89	Europe	5	C 07 D 433/898
	BZ	0 494 119	A1	08/07/92	Europe	5	A 6K 31/505
	BBA	0 515 144	A1	11/25/92	Europe	6	A 61 K 31/505
	BBB	0 515 156	A1	11/25/92	Europe	5	C 07 H 19/04

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	CA	0 515 157	A1	11/25/92	Europe	5	C 07 D	327/04
	CB	0 526 253	A1	02/03/93	Europe	5	C 07 D	411/04
	CC	WO 88/07532	A1	10/06/88	PCT	4	C 07 D	405/04
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	CT	WO 92/15308	A1	09/17/92	PCT	5	C 07 K	31/505
	CU	WO 92/18517	A1	10/29/92	PCT	5	C 07 D	17/00
	CV	WO 92/21676	A1	12/10/92	PCT	5	C 07 K	411/04
	CW	WO 93/00910	A1	01/21/93	PCT	5	A 61 K	31/70
	CX	WO 93/12128	A1	06/24/93	PCT	5	C 07 H	19/06
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	CCB	WO 94/04154	A1	03/03/94	PCT	5	A 61 K	3152
	CCC	WO 94/05300	A1	03/17/94	PCT	5	A 61 K	31/71
	CCD	WO 94/09793	A1	05/11/94	PCT	5	A 61 K	31/70
	CCE	WO 94/14456	A1	07/07/94	PCT	5	A 61 K	31/70

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DA	WO 94/14802	A1 07/07/94	PCT	5	C 07 D 411/04
DB	WO 94/26273	A1 11/24/94	PCT	5	A 61 K 31/44
DC	WO 94/26764	A1 11/24/94	PCT	5	C 07 H 21/00
DD	WO 94/27616	A1 12/08/94	PCT	5	A 61 K 31/70
DE	WO 95/07287	A1 03/16/95	PCT	6	C 07 H 19/04
DF	WO 95/11252	A1 04/27/95	PCT	6	C 07 H 19/10
DG	WO 96/15132	A1 05/23/96	PCT	6	C 07 F 9/02
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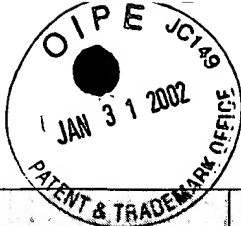
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DK	Beach, <i>et al.</i> , "Synthesis of Enantiomerically Pure (2'R,5'S)-(-)-1-[2-(hydroxymethyl) oathiolan-5-yl]Cytosine as a Potential Antiviral Agent Against Hepatitis B (HBV) and Human Immunodeficiency," <i>J. Org. Chem.</i> 57:2217-2219 (1992).
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DM	Belleau, B., <i>et al.</i> , "Design and Activity of a Novel Class of Nucleoside Analogs Effective Against HIV-1...", <i>Intl. Conf. on AIDS</i> , Montreal, Quebec, Canada, June 4-9, 1989.
DN	Boutelje, <i>et al.</i> , <i>Chemical Abstracts</i> 108:128048 (1987).
DO	Chang, C-N., <i>et al.</i> , "Biochemical Pharmacology of (+) and (-)-2',3'-Dideoxy-3'-Thiacytidine as Anti-Hepatitis B Virus Agents," <i>J. Biol. Chem.</i> 267(31):22414-22420 (1992).
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DQ	Chang, Chungming, <i>et al.</i> , "Production of Hepatitis B Virus <i>in vitro</i> by Transient Expression of cloned HBV PNA in Hepatoma Cell Line," <i>The EMBO J.</i> 6(3):675-680 (1987).

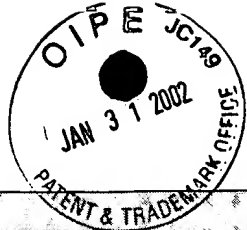
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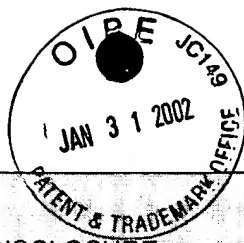
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OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
EA	Chu, <i>et al.</i> , "Structure Activity Relationships of Pyrimiding Nucleosides as Antiviral Agents for Human Immunodeficiency Virus Type 1 in Peripheral Blood Mononuclear Cells." <i>J. Med. Chem.</i> , 32:3 pp. 612-617 (1989).		
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EK	Di Bisceglie, <i>et al.</i> , "Hepatocellular Carcinoma," NIH Conference, <i>Annals of Internal Medicine</i> , 108:390-401 (1988).		
EL	Doong, <i>et al.</i> , "Inhibition of the Replication of Hepatitis B virus <i>in vitro</i> by 2',3'-Dideoxy-3'-Thiacytidine and Related Analogues," <i>Ntl. Acad. Sci. USA</i> , 88:8495-8499 (1991).		
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FA	Furman, <i>et al.</i> , "The Anti-Hepatitis B Virus Activities, Cytotoxicities, and Anabolic Profiles of the (-) and (+) Enantiomers of <i>cis</i> -5-Fluoro-1-[2-(Hydroxymethyl)-1,3-Oxathiolane-5-yl] Cytosine," <i>Antim. Agents and Chemo.</i> , 36(12):2686-2692 (1992).		
FB	Ganem, "Animal Models of Hepatitis B Virus Infection," <i>Experimental Models in Antimicrobial Chemotherapy</i> , 2:259-273 (1986).		
FC	Ganem, <i>et al.</i> , "The Molecular Biology of the Hepatitis B Viruses," <i>Ann. Rev. Biochem.</i> , 56:651-693 (1987).		
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FE	Hamamoto, <i>et al.</i> , <i>Antimicrob. Agents and Chemother.</i> , 31:907-910 (1987).		
FF	Hoong, <i>et al.</i> , "Enzyme-Mediated Enantioselective Preparation of Pure Enantiomers of the Antiviral Agent 2'3'-Dideoxy-5-Fluoro-3'-Thiacytidine (FTC) and Related Compounds," <i>J. of Org. Chem.</i> , 57:5563-5565 (1992). (pg. 65 missing)		
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		Applicant:	
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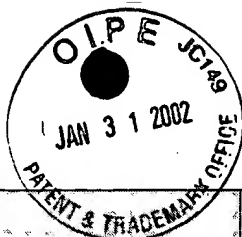
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